

## **FIBER OPTIC ATTACHMENT METHOD, STRUCTURE, AND SYSTEM**

### **Abstract of the Disclosure**

An attachment structure, and an associated method and system for forming the attachment structure. An end of an optical fiber is melted while the end is above, but not touching, an  
5 exposed surface of a substrate such that said end becomes molten. The optical fiber is substantially optically transparent to laser radiation of a given wavelength. The molten end is moved toward the exposed surface of the substrate until the end makes physical contact with the exposed surface of the substrate. The moving is performed sufficiently fast so that the end is still molten when the end initially makes the physical contact with the exposed surface of the  
10 substrate. The physical contact is maintained for a sufficient length of time to enable the end to bond to the exposed surface of the substrate with no intervening matter between the end and the exposed surface of the substrate.